

## Does TIMSS collect other information as well?

**TIMSS** is more than an assessment of student knowledge in mathematics and science. TIMSS also considers the context in which learning occurs. Students, teachers and schools are asked about a variety of aspects of the environments in which content is taught, learned, practiced and applied. In this way, TIMSS provides each country with a rich source of information on the factors influencing mathematics and science achievement.

## What is new for TIMSS 2007?

Development of the TIMSS 2007 assessment represents an extensive collaborative effort involving individuals and expert groups from more than 60 countries around the world.

The TIMSS content frameworks for 2007 rely heavily on the extensive efforts expended to update the frameworks for 2003, when specific assessment objectives were developed for Grades 4 and 8. For 2007, there was a further effort to consolidate the major content domains and present them separately for the two grades.

Both the mathematics and science assessment frameworks also have a cognitive dimension—Knowing, Applying, and Reasoning. To enable reporting by cognitive domains, these also were revised for TIMSS 2007 to sharpen the distinction among categories.

## Which countries are participating in TIMSS 2007?

Algeria	Hong Kong	Qatar
Armenia	Hungary	Romania
Australia	Indonesia	Russian Federation
Austria	Iran	Saudi Arabia
Bahrain	Israel	Scotland
Bosnia and Hercegovina	Italy	Serbia
Botswana	Japan	Singapore
Bulgaria	Jordan	Slovak Republic
Canada	Korea, Republic of	Slovenia
Chinese Taipei	Kuwait	South Africa
Colombia	Latvia	Sweden
Cyprus	Lebanon	Syrian Arab Republic
Czech Republic	Lithuania	Thailand
Denmark	Malaysia	Tunisia
Djibouti	Malta	Turkey
Egypt	Mongolia	Ukraine
El Salvador	Morocco	United States
England	Netherlands	Uzbekistan
Georgia	New Zealand	Yemen
Germany	Norway	
Ghana	Oman	
Honduras	Palestinian National Authority	

For questions about TIMSS 2007,  
contact the TIMSS Information Hotline at  
1-877-248-4358 or email to  
[Kate.Mattingly@windwalker.com](mailto:Kate.Mattingly@windwalker.com)



## Trends in International Mathematics and Science Study (TIMSS 2007)



# What is **TIMSS**?

**TIMSS** is short for *Trends in International Mathematics and Science Study*. In 2007 TIMSS will measure the mathematics and science knowledge of fourth and eighth grade students in more than 60 countries, including the United States.

**TIMSS** is an international assessment conducted every four years. TIMSS first collected data in 1995, and then again from eighth-graders in 1999. With the 2003 data collection, TIMSS offered the first international trend comparisons in mathematics and science at grades four and eight. To continue data collection, TIMSS will again be conducted in 2007. All the TIMSS studies together will allow us to track the mathematics and science achievements of students in more than 50 countries over a 12-year period.

TIMSS provides valuable benchmark information on how U.S. students compare to students around the world, allows us to examine other educational systems for exemplary practices that could have application to the United States and contributes to ongoing discussions of ways to improve the quality of education for all students.

## What kind of assessments will be used?

**TIMSS** mathematics and science assessments are developed through an international consensus-building process involving input from international experts in mathematics, science and measurement.

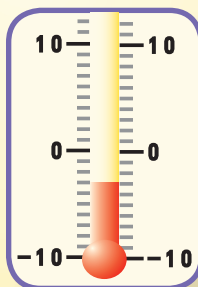
In a final step, the assessments are endorsed as suitable by all participating countries. The assessments contain a mix of questions; some

require students to select appropriate responses, while others require that students solve problems and provide written answers. Examples of mathematics and science assessment items are given below. More examples are available on the TIMSS website (<http://nces.ed.gov/timss>).

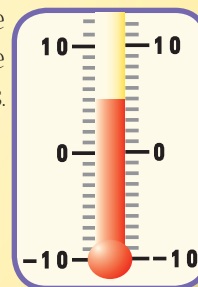


## Examples of actual eighth grade mathematics and science items used in TIMSS 2003

When Tracy left for school, the temperature was minus 3 degrees.



At recess, the temperature was 5 degrees.



How many degrees did the temperature rise?

- ☐ (A) 2 degrees?
- ☐ (B) 3 degrees?
- ☐ (C) 5 degrees?
- ☐ 8 degrees?

Animals hibernate to survive cold weather and poor food supplies. Which of the following occurs in animals when they hibernate?

- ☐ (A) Their blood stops circulating.
- ☐ (B) Their body temperatures increase.
- ☐ (C) Their body fat remains constant.
- ☐ Their rate of metabolism decreases.